

REMARKS/ARGUMENTS

Favorable reconsideration of this application as presently amended and in view of the following remarks is respectfully requested.

Claims 1-7, 18-20, 24, and 25 are presently active in this case. Claims 1, 24, and 25 have been amended by way of the present amendment. Support regarding the amendment of Claims 1, 24 and 25 can be found in the embodiments 1-4 and 7-11 disclosed in the present specification.

For example page 36, lines 8-12 (Embodiment 1) of the specification, discloses that “the surface roughness of the Ti spray deposit is 126  $\mu\text{m}$  for the mean spacing S of tops of local peak of profile, 75  $\mu\text{m}$  for the distance from the mean line to the bottom of profile valley line Rv and 85  $\mu\text{m}$  for the distance from the mean line to the top of profile peak line Rp.” According to embodiment 1, the difference in distance between the top of profile peak line Rp and the bottom of profile valley line Rv (Rp-Rv) is 6  $\mu\text{m}$ .

Further, on page 38, Table 2 identifies, Rp and Rv values of samples 1-8 of Embodiment 2. The difference in distance between Rp and Rv (Rp – Rv) of Embodiment 2 is shown in the following Table A.

Table A

	No.	Surface Roughness ( $\mu\text{m}$ )			Rp-Rv ( $\mu\text{m}$ )
		S	Rv	Rp	
Embodiment 2	1	78	39	40	1
	2	83	52	49	-3
	3	81	42	40	-2
	4	83	44	45	1
	5	79	50	47	-3
	6	72	43	42	-1
	7	73	43	45	2
	8	158	83	78	-5

Rp and Rv of Embodiments 3-4 and 7-10 are identified in Tables 3-4 and 7-10 of the specification. The difference in distance between Rp and Rv ( $R_p - R_v$ ) of Embodiments 3-4 and 7-10 are shown in the following Tables B-G.

Table B

	No.	Surface Roughness of Ti Spray Deposits			Rp-Rv ( $\mu\text{m}$ )
		S ( $\mu\text{m}$ )	Rv ( $\mu\text{m}$ )	Rp ( $\mu\text{m}$ )	
Embodiment 3	1	55	25	22	-3
	2	68	32	26	-6
	3	85	40	32	-8
	4	107	42	33	-9
	5	136	52	55	3
	6	146	63	68	5

Table C

	No.	Surface Roughness of Al Spray Deposits			Rp-Rv ( $\mu\text{m}$ )
		S ( $\mu\text{m}$ )	Rv ( $\mu\text{m}$ )	Rp ( $\mu\text{m}$ )	
Embodiment 4	1	58	24	22	-2
	2	74	27	20	-7
	3	89	43	36	-7
	4	110	47	38	-9
	5	131	59	55	-4
	6	145	67	68	1

Table D

	No.	Surface Roughness ( $\mu\text{m}$ )			Rp-Rv ( $\mu\text{m}$ )
		S	Rv	Rp	
Embodiment 7	1	65	40	38	-2
	2	95	58	49	-9
	3	97	64	58	-6
	4	72	45	40	(-5)
	5	78	50	47	-3
	6	68	41	40	-1
	7	74	53	49	-4
	8	84	47	49	2
	9	90	58	57	-1
	10	92	57	53	-4
	11	97	61	57	-4

Table E

	No.	Surface Roughness ( $\mu\text{m}$ )			Rp-Rv ( $\mu\text{m}$ )
		S	Rv	Rp	
Embodiment 8	1	82	47	41	-6
	2	84	49	50	1
	3	63	32	30	-2
	4	69	37	34	-3
	5	69	42	37	-5
	6	73	47	44	-3
	7	74	55	57	2
	8	91	72	68	-4
	9	77	50	47	-3
	10	83	56	54	-2
	11	87	62	57	-5

Table F

	No.	Surface Roughness ( $\mu\text{m}$ )			Rp-Rv ( $\mu\text{m}$ )
		S	Rv	Rp	
Embodiment 9	1	84	59	63	4
	2	88	64	68	4
	3	61	37	33	-4
	4	64	41	37	-4
	5	58	30	34	4
	6	64	36	37	1
	7	70	46	45	-1
	8	74	52	53	1
	9	68	47	43	-4
	10	71	52	50	-2
	11	74	52	49	-3

Table G

	No.	Surface Roughness ( $\mu\text{m}$ )			Rp-Rv ( $\mu\text{m}$ )
		S	Rv	Rp	
Embodiment 10	1	87	64	59	-5
	2	93	75	69	-6
	3	78	57	48	-9
	4	82	61	54	-7
	5	84	64	58	-6
	6	90	69	63	-6
	7	63	37	40	3
	8	68	42	43	1
	9	84	62	59	-3
	10	88	69	58	-11
	11	88	67	69	2

On page 52, lines 1-3 of the specification (Embodiment 11), it is disclosed that “45  $\mu\text{m}$  and 42  $\mu\text{m}$  of the distances from the mean line to the bottom of profile valley line Rv and to the top of profile peak line Rp, respectively.” As disclosed in the embodiment 10, the difference in distance between Rp and Rv (Rp-Rv) is -3  $\mu\text{m}$ .

As described above, the embodiments of the present invention disclose a difference in distance between the top of profile peak line and the bottom of profile valley line Rv (Rp – Rv) in the range from -11 to 6  $\mu\text{m}$ . In the embodiments of the present specification, the minimum value of the difference in distance between Rp and Rv (Rp – Rv) is -11  $\mu\text{m}$  (sample

Application No. 09/926,041  
Reply to Office Action of June 27, 2003

No. 10 of embodiment 10), and the maximum value of the difference in distance between  $R_p$  and  $R_v$  ( $R_p - R_v$ ) is 6  $\mu\text{m}$  (embodiment 1).

None of the applied art is believed to anticipate or render obvious independent claims 1, 24, and 25 as amended. Consequently, the application is believed to be in condition for allowance. An early and favorable action is respectfully requested.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.



Eckhard H. Kuesters  
Attorney of Record  
Registration No. 25,599

Customer Number

**22850**

Tel: (703) 413-3000  
Fax: (703) 413 -2220  
(OSMMN 08/03)

W. Todd Baker  
Registration No. 45,265

I:\ATTY\WTB\0039\212835US\212835US-AM 12 SEPT 03.DOC